

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 September 2005 (15.09.2005)

PCT

(10) International Publication Number
WO 2005/084547 A1

(51) International Patent Classification⁷: **A61B 5/155**,
G01N 33/487

(21) International Application Number:
PCT/SE2005/000295

(22) International Filing Date: 2 March 2005 (02.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0400561-7 5 March 2004 (05.03.2004) SE
60/521,193 8 March 2004 (08.03.2004) US

(71) Applicant (for all designated States except US): **DATIN-
NOVATION I LUND AB** [SE/SE]; Scheelevägen 18,
S-223 63 Lund (SE).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **HANSSON, Hans-
Axel** [SE/SE]; Galjevångsvägen 22, S-224 65 Lund (SE).

(74) Agent: **ALBIHNS MALMÖ AB**; P.O. Box 4289, S-203
14 Malmö (SE).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,
ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

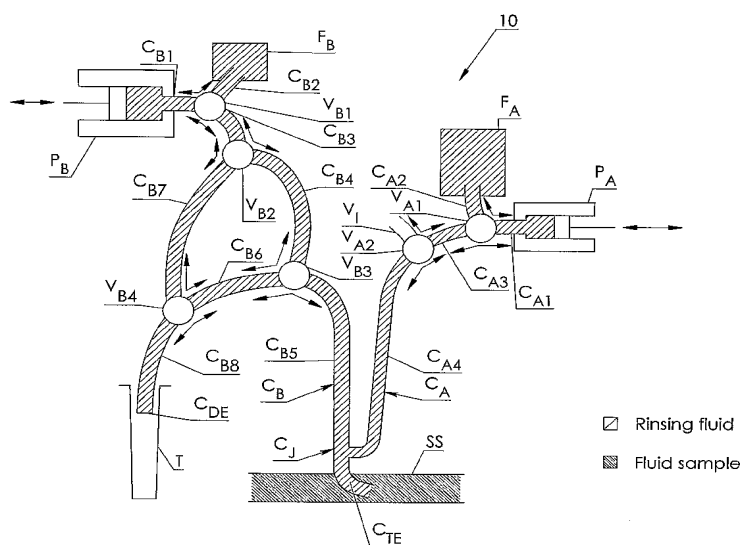
— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report

[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR AUTOMATIC TAKING OF FLUID SAMPLES



(57) **Abstract:** The invention relates to automatic taking of fluid samples from a sample site (SS) of the living. A system comprises catheter means (CA,CB) having a junction (CJ) configured to be located in proximity to the sample site (SS). The junction is connected to first and second catheter means (CA,CB) and a sample-taking end (CTE). A valve (VA2) is connected to the first catheter means (CA) and has an inlet (VI) for an immiscible fluid to be aspirated into the first catheter means. Pumping means (PA,PB) are connectable to said catheter means and configured to aspirate and move said amount of said fluid (AB) to said junction. A first part (AB1) of said immiscible fluid (AB) is arranged in said second catheter means and a second part (AB2) in said first catheter means, whereby said first (AB1) and second (AB2) parts being configured to separate a taken sample (TS).



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.